

DOE/ID-10213

**HWMA/RCRA Part A Permit Application  
for the Idaho National Engineering and  
Environmental Laboratory**

**PADS TSA-1/TSA-R and TSA-2 and TSA-RMF**

**at the**

**Transuranic Storage Area**

**Volume 1a**

**BNFL Inc.**

**January 2001**

MANUAL TITLE: HWMA/RCRA Part A Permit Application for the Idaho National  
Engineering and Environmental Laboratory  
Pads TSA-1/TSA-R and TSA-2 and TSA-RMF at the  
Transuranic Storage Area

Volume 1A

BNFL Inc.  
January 2001

ASSIGNED TO: Maggie McGovern CONTROL #: 3  
*for the DOE Public Reading Room*

PUBLIC READING ROOM  
U.S. DEPARTMENT OF ENERGY  
IDAHO OPERATIONS OFFICE



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor  
C. Stephen Allred, Director

November 14, 2000

**CERTIFIED MAIL #7099 3220 0006 2681 1109**

Mr. Dave Wessman  
DOE-Idaho Operations Office  
850 Energy Drive  
Idaho Falls, Idaho 83401-1563

Mr. Fred Hughes  
Advanced Mixed Waste Treatment Project  
1970 East 17<sup>th</sup> Street, Suite 207  
Idaho Falls, Idaho 83404

Mr. Paul Divjak  
Bechtel BWXT Idaho, LLC  
P.O. Box 1625  
Idaho Falls, Idaho 83415

SUBJECT: Transfer of Operational Control of the RWMC TSA Interim Status Units from Bechtel BWXT Idaho, LLC to BNFL

Dear Mr. Wessman, Mr. Hughes, and Mr. Divjak:

This letter is regarding the October 3, 2000 request to modify the Part A Permit at the Idaho National Engineering and Environmental Laboratory, EPA ID No. 4890008952.

The State of Idaho, Department of Environmental Quality (DEQ), has reviewed DOE-ID's request to modify the HWMA/RCRA Part A Permit Application for the Idaho National Engineering and Environmental Laboratory PADS TSA-1/TSA-R, TSA-2 and TSA-RMF at the Transuranic Storage Area, Volume 1a. This modification transfers operational control from BBWI to BNFL.

Based on this review, the DEQ hereby approves this modification.

If you have any questions or comments, please contact Mr. Gary Adamson at (208) 373-0316

Sincerely,

A handwritten signature in black ink, appearing to read "Brian R. Monson".

Brian R. Monson, HW Program Manager  
Waste Management & Remediation Division

BRM/GA:ls

cc: J. Hunt, EPA Region 10  
R. Owens, IFRO  
COF

D. D. Nishimoto, SAIC  
K. Trever, INEEL Oversight  
INpbp

INppa 5





## Department of Energy

Idaho Operations Office  
850 Energy Drive  
Idaho Falls, Idaho 83401-1563

October 3, 2000

C. Stephen Allred, Director  
c/o: Ms. Katherine Kelly, Administrator  
Idaho Department of Environmental Quality  
State Waste Management and Remediation Program  
1410 North Hilton  
Boise, ID 83706-1255

SUBJECT: Notice of Transfer of Operational Control of the RWMC TSA Interim Status Units  
(TS-ETSD-00-198)

Dear Mr. Allred:

This letter is to inform you of the planned transfer of operational control of the RWMC TSA interim status (IS) units (i.e., TSA-1/R, TSA-2 and the TSA-RE RMF) from the current operator, Bechtel BWXT Idaho, LLC (BBWI) to BNFL Inc. at 12:00 AM on January 2, 2001, in support of the Advanced Mixed Waste Treatment Project (AMWTP). The TSA IS units are located within building WMF-636, the Transuranic Storage Area-Retrieval Enclosure (TSA-RE) at the Radioactive Waste Management Complex (RWMC) at the Idaho National Engineering and Environmental Laboratory (INEEL).

Enclosed are two copies of the newly created Volume 1a of the INEEL HWMA/RCRA Part A Permit Application. This new volume is largely excerpted from the applicable portions of the existing January 2000 revision of Volume 1, *HWMA/RCRA Part A Permit Application for the INEEL*, prepared by BBWI. In accordance with 40 CFR 265.12(b), a letter from the current operator (BBWI) to the new operator (BNFL Inc.), notifying them of the requirements of 40 CFR Parts 265 and 270, will be forthcoming.

BNFL Inc. has delegated authority for signing environmental permits and reports to the AMWTP General Manager, Frederick P. Hughes. Documentation for this change is enclosed, in accordance with IDAPA 58.01.05.012 [40 CFR Part 270.11(c)].



C. Stephen Allred

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We appreciate your attention and efforts on this important project. For any questions that may arise, please call Greg Hula at (208) 526-9899 or Doug Nishimoto (SAIC) at (208) 528-2121.

Sincerely,



Teresa L. Perkins, Director  
Environmental Technical Support Division

Enclosure

cc: w/enc.

Robert E. Bullock, IDEQ  
Jeff Hunt, EPA Region 10  
Rensay Owen, DEQ, IFO  
Kathleen Trever, INEEL Oversight



## Memorandum

To: Fred P. Hughes  
General Manager, Advanced Mixed Waste Treatment Plant

Date: August 31, 2000

cc: K. Edward Newkirk  
Vice President and General Counsel

Carl B. Smith  
Corporate Manager, Environmental Health & Safety/Quality  
Assurance

From: Paul A. Miskimin *Paul A. Miskimin*  
President and Chief Executive Officer

Your ref:

Ext: (703) 460-2000

Our ref:

Fax: (703) 385-5343

Subject: **Delegation of Authority Relating to Environmental Permits and Reports**

The purpose of this memorandum is to delegate certain of my authorities to you, as General Manager in charge of BNFL's Advanced Mixed Waste Treatment Plant (AMWTP) Project located at the U.S. Department of Energy's Idaho National Environmental Engineering Laboratory.

Federal, state and certain local environmental laws and regulations state that the only persons authorized to sign certain environmental permit applications are (1) a corporate officer or (2) a manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in 1980 dollars). The BNFL Inc. position of General Manager on the AMWTP Project fully satisfies the latter category.

Accordingly, as President and Chief Executive Officer of BNFL Inc., I hereby authorize you as BNFL's General Manager of the AMWTP Project, to take and perform the following actions on behalf of BNFL Inc.:

1. Signing any (a) federal, state, or local environmental permit application, (b) application for modification, assignment, or transfer of any environmental permit, and (c) contract, agreement or commitment that BNFL will become a permittee or co-permittee, or will assume any responsibilities as a permittee or co-permittee, of any environmental permit or modification relating to the AMWTP Project; and
2. Signing of all reports required by federal, state or local permits relating to the AMWTP Project.

Inasmuch as environmental permitting is a critical component of BNFL's commitment to safety and environmental compliance, your authority under item 1 requires that you provide a copy of any environmental permit application or other such documentation to the General Counsel and to the Director of ES&H/QA and obtain their concurrence before signing any such document. Your authority under item 1 is not subdelegable.

With regard to item 2, if authorized by law and regulations, you may subdelegate this responsibility to the appropriate manager. Any such subdelegation shall be in writing and shall require the prior concurrence of the General Counsel and the Director of ES&H/QA.

In addition, if at any time, it appears that the AMWTP Project neither employs more than 250 persons nor has gross annual sales or expenditures exceeding \$25 million (in 1980 dollars), this delegation shall be automatically revoked.

ASK/js

K:\AMWTP\Amwtp00\Delegation1.doc



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**PADS TSA-1/TSA-R and TSA-2 and TSA-RMF**

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**Volume 1a**

**BNFL Inc.**

**January 2001**

## ACRONYMS

|            |   |
|------------|---|
| AEC        | Atomic Energy Commission                                |
| AMWTF      | Advanced Mixed Waste Treatment Facility                 |
| AMWTP      | Advanced Mixed Waste Treatment Project                  |
| ASWS       | Air Support Weather Shield                              |
| BBWI       | Bechtel BWXT Idaho                                      |
| CFA        | Central Facilities Area                                 |
| DEQ        | Department of Environmental Quality                     |
| DOE        | Department of Energy                                    |
| HWMA       | Hazardous Waste Management Act                          |
| IDAPA      | Idaho Administrative Procedures Act                     |
| ILTSF      | Intermediate-Level Transuranic Storage Facility         |
| INEEL      | Idaho National Engineering and Environmental Laboratory |
| M&O        | Management and Operations                               |
| RCRA       | Resource Conservation and Recovery Act                  |
| RMF        | Retrieval Modification Facility                         |
| RWMC       | Radioactive Waste Management Complex                    |
| SDA        | Subsurface Disposal Area                                |
| SWEPP      | Stored Waste Examination Pilot Plant                    |
| TRU        | transuranic   |
| TRUPACT    | transuranic package transporter                         |
| TSA        | Transuranic Storage Area                                |
| TSA-RE     | TSA-Retrieval Enclosure                                 |
| TSA-RE RMF | TSA-RE Retrieval Modification Facility                  |
| WIPP       | Waste Isolation Pilot Plant                             |
| WSF        | Waste Storage Facility                                  |

## INTRODUCTION

This Part A Application for the interim status units (pads TSA-1/TSA-R and TSA-2 and TSA-RMF, hereafter collectively referred to as the TSA units) at the Transuranic Storage Area-Retrieval Enclosure (TSA-RE) at the Radioactive Waste Management Complex (RWMC) at the Idaho National Engineering and Environmental Laboratory (INEEL) is presented on Environmental Protection Agency (EPA) Form 8700-23.

The TSA units were included in the January 2000 revision (and the 8/1/00 Summary revision) of the INEEL HWMA/RCRA Part A Permit Application, prepared by Bechtel BWXT Idaho (BBWI). This revised Part A application is to support transfer of operational control of the TSA units from BBWI, the primary contractor for the INEEL, to BNFL Inc., which will operate the TSA interim status units as part of the overall Advanced Mixed Waste Treatment Project (AMWTP).

As applicable, the format of this volume is based on that established in DOE/ID-10213, Volume 1 HWMA/RCRA Part A Permit Application for the INEEL, as referenced in paragraph 1, page 4A of 7 of EPA Form 8700-23.



## TSA UNITS PART A PERMIT APPLICATION

### REVISION LOG

This revision log will be maintained to provide a brief synopsis of changes to the TSA Units Part A application that may occur after the TSA-RE (including associated interim status units) is transferred to BNFL Inc. operational control in January 2001. The primary purpose of the revision log is to provide a historical account of each revision. The log will reflect overall changes and will include letters from the Department of Environmental Quality (DEQ) relevant to changes in the TSA Units Part A application, but will not document all correspondence from others (e.g., DOE or the INEEL management and operations [M&O] contractor) related to the Part A application. The reader is directed to Volume 1, HWMA/RCRA Part A Permit Application for the INEEL, for changes prior to the January 2001 transfer date.

| Revision     | Date Submitted and/or Approved   | Summary of Changes   |
|--------------|----------------------------------|--|
| January 2001 | Submitted to DEQ<br>October 2000 | This draft revision was prepared by BNFL Inc. in October 2000, using a revision date of January 2001 to reflect a January 2001 operator transfer date. |

## **PART A PERMIT APPLICATION**

### **EPA FORM 8700-23**

|  |  |  |
|--|--|--|
| <b>For EPA Regional Use Only</b>           | <b>EPA</b><br>United States Environmental Protection Agency<br>Washington, DC 20460<br><b>Hazardous Waste Permit Application</b><br><b>Part A</b><br>(Read the Instructions before starting) |  |
| <b>Date Received</b><br>Month   Day   Year |  |  |

## I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

|   |   |
|---|---|
| <input type="checkbox"/> A. First Part A Submission | <input checked="" type="checkbox"/> B. Part A Amendment # <u>Rev September 2000</u> |
| C. Installation's EPA ID Number<br>ID4890008952     | D. Secondary ID Number (If applicable)  |

## II. Name of Facility

Idaho National Engineering and Environmental Laboratory (INEEL) Transuranic Storage Area Pads &amp; RMF

## III. Facility Location (Physical address not P.O. Box or Route Number)

|                           |             |          |
|---------------------------|-------------|----------|
| A. Street                 |             |          |
| Street (Continued)        |             |          |
| City or Town              | State       | Zip Code |
| Scoville                  | ID          | 83415    |
| County Code<br>(If known) | County Name |          |
|                           | Butte       |          |

|                              |   |  |
|------------------------------|---|--|
| B. Land Type<br>(Enter code) | C. Geographic Location<br>LATITUDE (Degrees, Minutes, & Seconds) LONGITUDE (Degrees, Minutes & Seconds) | D. Facility Existence Date<br>Month   Day   Year |
| F                            | 43, 29', 55"   113, 2', 17"   | 11   01   1970                                   |

## IV. Facility Mailing Address

|                    |       |          |
|--------------------|-------|----------|
| Street or P.O. Box |       |          |
| 850 Energy Drive   |       |          |
| City or Town       | State | Zip Code |
| Idaho Falls        | ID    | 83401    |

## V. Facility Contact (Person to be contacted regarding waste activities at facility)

|                        |                                     |
|------------------------|-------------------------------------|
| Name (Last)            | (First)                             |
| Rasch                  | Donald N                            |
| Job Title              | Phone Number (Area Code and Number) |
| Environmental Programs | (208) 526-1511                      |

## VI. Facility Contact Address (See instructions)

|   |                       |
|---|-----------------------|
| A. Contact Address<br>Location   Mailing   Other                                      | B. Street or P.O. Box |
| <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 850 Energy Drive      |
| City or Town  | State   Zip Code      |
| Idaho Falls   | ID   83401-1563       |



|  |   |   |   |
|--|---|---|---|
| <b>EPA I.D. Number (Enter from page 1)</b>                             |   | <b>Secondary ID Number (Enter from page 1)</b>      |   |
| ID4890008952   |   |   |   |
| <b>VII. Operator Information (See instructions)</b>                    |   |   |   |
| <b>Name of Operator</b>  |   |   |   |
| BNFL Inc.  |   |   |   |
| <b>Street or P.O. Box</b>  |   |   |   |
| 1970 East 17th Street, Suite 207                                       |   |   |   |
| <b>City or Town</b>  |   | <b>State</b>  | <b>ZIP Code</b>   |
| Idaho Falls  |   | ID  | 83404   |
| <b>Phone Number (Area Code and Number)</b>                             |   | <b>B. Operator Type</b>                             | <b>C. Change of Operator Indicator</b>                              |
| (208) 524-8484   |   | P   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|  |   |   | <b>Date Changed</b><br>Month Day Year<br>01 02 2001                 |
| <b>VIII. Facility Owner (See instructions)</b>                         |   |   |   |
| <b>A. Name of Facility's Legal Owner</b>                               |   |   |   |
| U.S. Department of Energy, Idaho Operations Office                     |   |   |   |
| <b>Street or P.O. Box</b>  |   |   |   |
| 850 Energy Drive   |   |   |   |
| <b>City or Town</b>  |   | <b>State</b>  | <b>ZIP Code</b>   |
| Idaho Falls  |   | ID  | 83401   |
| <b>Phone Number (Area Code and Number)</b>                             |   | <b>B. Owner Type</b>                                | <b>C. Change of Owner Indicator</b>                                 |
| (208) 526-2497   |   | F   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
|  |   |   | <b>Date Changed</b><br>Month Day Year                               |
| <b>IX. SIC Codes (4-digit, in order of significance)* See footnote</b> |   |   |   |
| <b>Primary</b>   |   | <b>Secondary</b>                                    |   |
| 54171  | (Description)<br>R&D physical, engineering, & life sciences | 562998  | (Description)<br>Misc Waste Management Services                     |
| <b>Secondary</b>   |   | <b>Secondary</b>                                    |   |
| 92411  | (Description)<br>Admin of solid waste management programs   |   | (Description)   |
| <b>X. Other Environmental Permits (See instructions)</b>               |   |   |   |
| <b>A. Permit Type (Enter code)</b>                                     | <b>B. Permit Number</b>                                     | <b>C. Description</b>                               |   |
| E  | License issued 9/25/97                                      | Hazardous Waste Facility Siting License (for AMWTP) |   |
| E  | Final approval granted 10/14/98                             | NESHAPS (for AMWTP)                                 |   |
| P  | Issued 7/19/00 (023-000001)                                 | Idaho Air Quality Permit to Construct (AMWTP)       |   |
| R  | Effective 8/18/00 (ID4890008952 & IDR0000002881)            | HWMA/RCRA (Treatment, AMWTP)                        |   |
| R  | Transfer date 8/7/00 (ID4890008952)                         | HWMA/RCRA (Storage, RWMC [WMF-634] )                |   |
| N  | Issued 9/22/99 (IDR10A429)                                  | NPDES Storm Water Construction General Permit       |   |
|  |   |   |   |
|  |   |   |   |
|  |   |   |   |



EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

ID4890008952

**XI. Nature of Business (Provide a brief description)**

The Transuranic Storage Area (TSA) is a 56-acre area located in the southern section of the INEEL, dedicated to the temporary storage of contact- and remote-handled radioactive-only and mixed wastes. The TSA Retrieval Enclosure (TSA-RE) is a weather-tight metal building constructed over three aboveground storage pads to facilitate retrieval of the waste for subsequent processing for transport to and disposal at the Waste Isolation Pilot Plant (WIPP). The building covers the waste stack, berms, and sloped earth on storage pads TSA-1/ R, with an adjacent wing over waste storage pad TSA-2. The work area within the TSA-RE encloses the earth overburden that will be removed to expose waste containers for subsequent retrieval and management. Additional information to satisfy the requirements specified at IDAPA 58.01.05.012 [40 CFR 270.13(a), (i) & (m)] is given in the supplement for Item XII.

**XII. Process Codes and Design Capacities**

- A. **PROCESS CODE** - Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in item XIII.
- B. **PROCESS DESIGN CAPACITY** - For each code entered in column A, enter the capacity of the process.
1. **AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
  2. **UNIT OF MEASURE** - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.
- C. **PROCESS TOTAL NUMBER OF UNITS** - Enter the total number of units used with the corresponding process code.

| PROCESS CODE | PROCESS   | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY  | PROCESS CODE                      | PROCESS  | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY   |
|--------------|---|---|-----------------------------------|--|--|
| D79          | <u>Disposal:</u><br>Underground Injection         | Gallons; Liters; Gallons Per Day; or Liters Per Day   | T87                               | Smelting, Melting, Or Refining Furnace   | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Hour; or Btu's Per Hour |
| D80          | Landfill  | Acre-feet or Hectare-meter  | T88                               | Titanium Dioxide Chloride Process Oxidation Reactor                              |  |
| D81          | Land Treatment                                    | Acres or Hectares   | T89                               | Methane Reforming Furnace  |  |
| D82          | Ocean Disposal                                    | Gallons Per Day r Liters Per Day  | T90                               | Pulping Liquor Recovery Furnace  |  |
| D83          | Surface Impoundment                               | Gallons or Liters   | T91                               | Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid |  |
| D99          | <u>Other Disposal</u>                             | Any Unit of Measure Listed Below  | T92                               | Halogen Acid Furnaces  |  |
| S01          | <u>Storage:</u><br>Container (Barrel, Drum, Etc.) | Gallons or Liters   | T93                               | Other Industrial Furnaces Listed in 40 CFR §260.10                               |  |
| S02          | Tank  | Gallons or Liters   | T94                               | Containment Building-Treatment   | Cubic Yards or Cubic Meters  |
| S03          | Waste Pile  | Cubic Yards or Cubic Meters   | <u>Miscellaneous (Subpart X):</u> |  | Any Unit of Measure Listed Below   |
| S04          | Surface Impoundment                               | Gallons or Liters   | X01                               | Open Burning/Open Detonation   |  |
| S05          | Drip Pad  | Gallons or Liters   | X02                               | Mechanical Processing  |  |
| S06          | Containment Building-Storage                      | Cubic Yards or Cubic Meters   | X03                               | Thermal Unit   |  |
| S99          | <u>Other Storage</u>                              | Any Unit of Measure Listed Below  | X04                               | Geologic Repository  | Cubic Yards or Cubic Meters  |
| T01          | <u>Treatment:</u><br>Tank                         | Gallons Per Day or Liters Per Day   | X99                               | Other Subpart X  | Any Unit of Measure Listed Below   |
| T02          | Surface Impoundment                               | Gallons Per Day or Liters Per Day   |                                   |  |  |
| T03          | Incinerator                                       | Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour   |                                   |  |  |
| T04          | Other Treatment                                   | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |
| T80          | Boiler  | Gallons or Liters   |                                   |  |  |
| T81          | Cement Kiln                                       | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |
| T82          | Lime Kiln   | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |
| T83          | Aggregate Kiln                                    | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |
| T84          | Phosphate Kiln                                    | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |
| T85          | Coke Oven   | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |
| T86          | Blast Furnace                                     | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |                                   |  |  |

| UNIT OF MEASURE        | UNIT OF MEASURE CODE | UNIT OF MEASURE            | UNIT OF MEASURE CODE | UNIT OF MEASURE      | UNIT OF MEASURE CODE |
|------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|
| Gallons .....          | G                    | Short Tons Per Hour .....  | D                    | Cubic Yards .....    | Y                    |
| Gallons Per Hour ..... | E                    | Metric Tons Per Hour ..... | W                    | Cubic Meters .....   | C                    |
| Gallons Per Day .....  | U                    | Short Tons Per Day .....   | N                    | Acres .....          | B                    |
| Liters .....           | L                    | Metric Tons Per Day .....  | S                    | Acre-feet .....      | A                    |
| Liters Per Hour .....  | H                    | Pounds Per Hour .....      | J                    | Hectares .....       | Q                    |
| Liters Per Day .....   | V                    | Kilograms Per Hour .....   | R                    | Hectare-meter .....  | F                    |
|                        |                      |                            |                      | Btu's Per Hour ..... | I                    |



| <b>EPA I.D. Number (Enter from page 1)</b>  |                                      |   |   |  |                            | <b>Secondary ID Number (Enter from page 1)</b> |  |       |                                  |                           |  |  |  |
|---|--------------------------------------|---|---|--|----------------------------|--|--|-------|----------------------------------|---------------------------|--|--|--|
| ID4890008952  |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| <b>XII. Process Codes and Design Capabilities (Continued)</b>   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| <i>EXAMPLE FOR COMPLETING ITEM XII (Shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.</i>   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| Line Number   | A. Process Code<br>(From list above) |   |   |  | B. PROCESS DESIGN CAPACITY |  |  |       | C. Process Total Number Of Units | For Official Use Only     |  |  |  |
|   |                                      |   |   |  | 1. Amount (Specify)        | 2. Unit Of Measure<br>(Enter code)             |  |       |                                  |                           |  |  |  |
| X 1   | S                                    | 0 | 2 |  | 5 3 3 . 7 8 8              | G  |  | 0 0 1 |                                  |                           |  |  |  |
| 1   | S                                    | 0 | 1 |  | 24,678,658**               | G  |  | 003   |                                  |                           |  |  |  |
| 2   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 3   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 4   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 5   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 6   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 7   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 8   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 9   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 1 0   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 1 1   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 1 2   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 1 3   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| <b>NOTE: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in item XIII.</b> |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| <b>XIII. Other Processes (Follow instructions from item XII for D99, S99, T04 and X99 process codes)</b>  |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| Line Number<br>(Enter #s in seg w/XI)   | A. Process Code<br>(From list above) |   |   |  | B. PROCESS DESIGN CAPACITY |  |  |       | C. Process Total Number Of Units | D. Description Of Process |  |  |  |
|   |                                      |   |   |  | 1. Amount (Specify)        | 2. Unit Of Measure<br>(Enter code)             |  |       |                                  |                           |  |  |  |
| X 1   | T                                    | 0 | 4 |  |                            |  |  |       | <b>In-situ Vitrification</b>     |                           |  |  |  |
| 1   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 2   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 3   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
| 4   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |
|   |                                      |   |   |  |                            |  |  |       |                                  |                           |  |  |  |



## SUPPLEMENT TO ITEM XII

### Process Codes and Design Capabilities Supplement

The process units listed in Item XII (page 4 of 7) of this Part A permit application are briefly described below.

| Line No. | Process Description  |
|----------|--|
| 1        | TSA-1/TSA-R Storage Capacity: 20,237,720 gallons. This unit is incorporated within the capacity of TSA-RE RMF.               |
| 2        | TSA-2 Storage Capacity: 4,440,938 gallons. This unit is incorporated within the capacity of TSA-RE RMF.                      |
| 3        | TSA-RMF Storage Capacity: 24,678,658 gallons. This unit includes the capacities for the TSA-1/TSA-R and TSA-2 storage units. |

### Overview of RWMC

The RWMC is a restricted-access area located 7 miles southwest of the Central Facilities Area (CFA) at the Idaho National Engineering and Environmental Laboratory (INEEL) (See Drawing 1, Item XVI). (The reader is directed to Volume 1, HWMA/RCRA Part A Permit Application for the INEEL, for a description of the INEEL.) The mission of the RWMC is to manage the disposal of low-level radioactive waste and the storage of transuranic (TRU) radioactive waste. Most of these wastes also contain Resource Conservation and Recovery Act (RCRA)-hazardous constituents, termed "mixed" low-level and/or TRU wastes. In addition, the AMWTP treatment facility (currently under construction) will expand the complex's waste management operations to include treating and preparing 65,000 m<sup>3</sup> of these wastes for shipment out of Idaho.

The RWMC is divided into four areas. The administrative area, located in the northeast section of the facility, consists of buildings used for office space and other activities that support operations. The operations area, a 10-acre area located west of the administrative area, consists of buildings and storage sheds used for operations and maintenance activities that support the RWMC. The Subsurface Disposal Area (SDA) is a 97-acre area located in the western section of the facility dedicated to permanent shallow-land disposal of solid, low-level radioactive waste. The Transuranic Storage Area (TSA) is a 56-acre area located in the southern section of the facility, dedicated to the temporary storage of contact- and remote-handled radioactive-only and mixed wastes. The TSA is also contained within a security fence and includes the Stored Waste Examination Pilot Plant (SWEPP), the Transuranic Package Transporter

(TRUPACT) Loading Station, the Waste Storage Facility (WSF) Type I and Type II storage modules, the TSA Retrieval Enclosure (TSA-RE), and the Intermediate-Level Transuranic Storage Facility (ILTSF). The TSA is also the location for the AMWTP. Descriptions of the RWMC interim status units that are included in this Part A application follow.

### *TSA Units*

The TSA-RE (WMF-636), which is not a permitted or interim status unit, is a weather-protective metal building over pads TSA-R and TSA-1, with an adjacent wing over pad TSA-2. The building covers the waste stack, berms, and sloped earth. The work area within the TSA-RE encloses the earth overburden that will be removed to expose waste containers. Figure 1 is a schematic of the TSA-RE layout, including the location of each pad and the cells associated with each pad.

In 1970, the Atomic Energy Commission (AEC) directed that all waste contaminated with TRU isotopes be segregated from other types of radioactive waste because of the radiotoxicity and long half-lives of the TRU material. The TRU waste was to be stored in a readily retrievable manner, for an interim storage period of 20 years. When a federal repository became available, this waste was to be retrieved and sent for long-term isolation. The TSA-RE was constructed over three aboveground storage pads to facilitate retrieval of the waste for subsequent processing for transport to and disposal at the Waste Isolation Pilot Plant (WIPP).

The waste on the TSA pads is packaged in an assortment of containers that were stacked in various configurations, then covered with a variety of protective materials (plywood, planks, polyethylene sheeting, geo-fabric), and generally overlaid with 3-4 ft of soil seeded with sod building grass. Containers stored in TSA-1 and -2 are primarily 55-gal drums and fiberglass-reinforced plywood boxes; TSA-R primarily stores waste in storage boxes, bins, and cargo containers. (The cargo containers and some bins contain drums.) The TSA pads are discussed in more detail in the following paragraphs.

### *TSA-1/TSA-R*

Completed in October 1970, TSA-1 was the first pad constructed at the TSA. Initially 150 ft wide by 400 ft long and surfaced with 4 in. of blacktop paving, the length of TSA-1 was extended to 730 ft in 1972. The pad was divided into eight cells of varying lengths separated by a 36-in. firewall. The first waste was emplaced at TSA-1 in November 1970, and the last was received in October 1975.

TSA-R was built in December 1976, to provide storage of waste removed from buried storage at the RWMC and repackaged in drums, steel bins, or metal cargo carriers. This pad is composed of a 2.5-in.



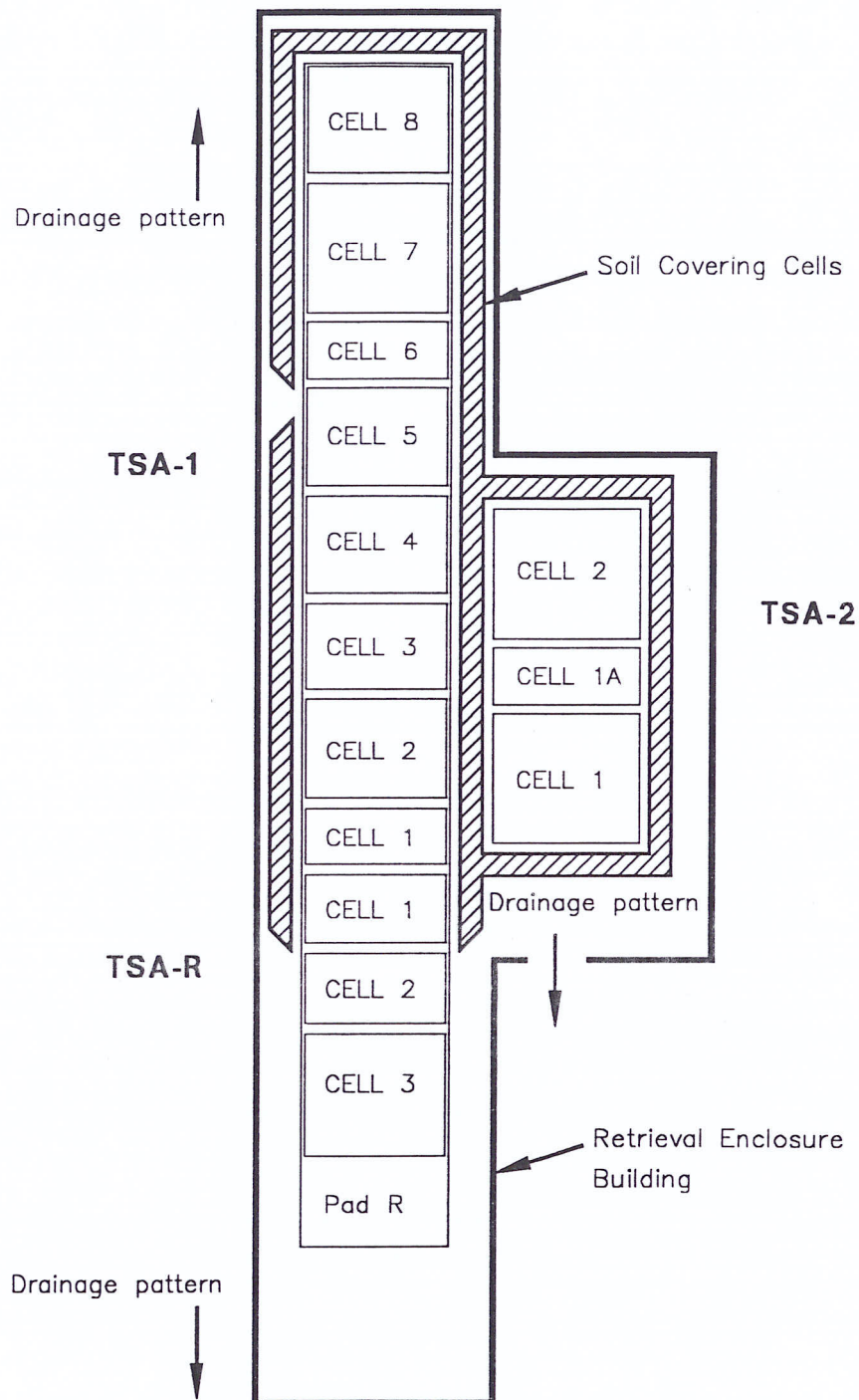
layer of asphalt over a compacted base, 150 ft wide by 435 ft long. TSA-R received waste until about 1989. Waste is stored in three cells. Cell 1 is covered with soil, and Cells 2 and 3 are covered only with a vinyl-coated geo-fabric tarp.

#### *TSA-2*

TSA-2 is similar in construction to TSA-1. TSA-2 is 150 ft wide by 430 ft long, with a 3-in.-thick asphalt layer over a gravel base. Waste was placed into TSA-2 from 1975 until 1980. Each of the four cells that compose TSA-2 is paved with asphalt and isolated from the adjacent cell by a 2- to 4-ft-thick earth fire wall. In October 1975, an air-support building (the ASWS) was erected over the paved pad, on the first storage cell at the southern end of TSA-2, to permit all-weather operations. Three storage cells (1, 1A, and 2) were filled and covered with soil. After each cell was filled, the ASWS was moved to the north.

#### *TSA-RE Retrieval Modification Facility (RMF)*

The TSA-RE RMF has interim status for container storage, but has never been constructed. The unit was planned as an area to store waste retrieved from the TSA pads, pending transfer to other waste management units at the TSA. When all containers in a portion of the TSA-RE were removed, the area would be surveyed, sampled, and decontaminated. The structures, asphalt pad, and contiguous underlying soils would be checked for possible radioactive (and other) contamination. Areas to be modified for container storage would have the asphalt pad removed, the area regraded, and a concrete floor slab and interior divider walls constructed. These areas modified for container storage would comprise the TSA-RE RMF. Two storage areas, each 200 ft wide by 150 ft long, were initially planned. Up to six additional storage areas of similar size were to be added in the future, for a total of eight. If not required for additional storage of retrieved waste awaiting treatment or shipping, this unit will be scheduled for RCRA administrative closure.



1

GT99 0212

2

**Figure 1. Location of Pads TSA-1, TSA-2, and TSA-R in the TSA-RE**



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## XIV. Description of Hazardous Wastes

- A. **EPA HAZARDOUS WASTE NUMBER** - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. **ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. **UNIT OF MEASURE** - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

| ENGLISH UNIT OF MEASURE | CODE | METRIC UNIT OF MEASURE | CODE |
|-------------------------|------|------------------------|------|
| POUNDS                  | P    | KILOGRAMS              | K    |
| TONS                    | T    | METRIC TONS            | M    |

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

## D. PROCESSES

## 1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- Enter the first two as described above.
- Enter "000" in the extreme right box of item XIV-D(1).
- Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).

## 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

| Line Number |   | A. EPA HAZARD WASTE NO.<br>(Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE<br>(Enter code) | D. PROCESS                     |   |   |   |   |   |  |  |   |                     |
|-------------|---|---|---|---|---|---------------------------------------|------------------------------------|--------------------------------|---|---|---|---|---|--|--|---|---------------------|
|             |   |   |   |   |   |                                       |                                    | (1) PROCESS CODES (Enter code) |   |   |   |   |   |  |  | (2) PROCESS DESCRIPTION<br>(If a code is not entered in D(1)) |                     |
| X           | 1 | K                                       | 0 | 5 | 4 | 900                                   | P                                  | T                              | 0 | 3 | D | 8 | 0 |  |  |   |                     |
| X           | 2 | D                                       | 0 | 0 | 2 | 400                                   | P                                  | T                              | 0 | 3 | D | 8 | 0 |  |  |   |                     |
| X           | 3 | D                                       | 0 | 0 | 1 | 100                                   | P                                  | T                              | 0 | 3 | D | 8 | 0 |  |  |   |                     |
| X           | 4 | D                                       | 0 | 0 | 2 |                                       |                                    |                                |   |   |   |   |   |  |  |   | Included With Above |



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## XIV. Description of Hazardous Wastes (Continued)

| Line Number | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code) | D. PROCESSES   |   |   |  |  |  |  |  |  |                     |
|-------------|--------------------------------------|---|---|---|---------------------------------------|---------------------------------|--|---|---|--|--|--|--|--|--|---------------------|
|             | (1) PROCESS CODES (Enter code)       |   |   |   |                                       |                                 | (2) PROCESS DESCRIPTION (If a code is not entered in D(1)) |   |   |  |  |  |  |  |  |                     |
| 1           | D                                    | 0 | 0 | 1 | 83,978                                | T                               | S  | 0 | 1 |  |  |  |  |  |  | TSA-1/TSA-R         |
| 2           | D                                    | 0 | 0 | 2 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 3           | D                                    | 0 | 0 | 4 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 4           | D                                    | 0 | 0 | 5 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 5           | D                                    | 0 | 0 | 6 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 6           | D                                    | 0 | 0 | 7 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 7           | D                                    | 0 | 0 | 8 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 8           | D                                    | 0 | 0 | 9 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 9           | D                                    | 0 | 1 | 0 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 10          | D                                    | 0 | 1 | 1 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 11          | D                                    | 0 | 1 | 8 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 12          | D                                    | 0 | 1 | 9 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 13          | D                                    | 0 | 2 | 1 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 14          | D                                    | 0 | 2 | 2 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 15          | D                                    | 0 | 2 | 3 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 16          | D                                    | 0 | 2 | 4 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 17          | D                                    | 0 | 2 | 5 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 18          | D                                    | 0 | 2 | 6 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 19          | D                                    | 0 | 2 | 8 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 20          | D                                    | 0 | 2 | 9 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 21          | D                                    | 0 | 3 | 2 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 22          | D                                    | 0 | 3 | 4 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 23          | D                                    | 0 | 3 | 5 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 24          | D                                    | 0 | 3 | 6 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 25          | D                                    | 0 | 3 | 8 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 26          | D                                    | 0 | 3 | 9 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 27          | D                                    | 0 | 4 | 0 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 28          | F                                    | 0 | 0 | 1 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 29          | F                                    | 0 | 0 | 2 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 30          | F                                    | 0 | 0 | 3 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 31          | F                                    | 0 | 0 | 4 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 32          | F                                    | 0 | 0 | 5 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |
| 33          | F                                    | 0 | 0 | 6 |                                       |                                 |  |   |   |  |  |  |  |  |  | Included with above |



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|--|--------------------------------------|---|---|---|--|---|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|
| ID4890008952                                     |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |  |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |  |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   |  | B. ESTIMATED ANNUAL QUANTITY OF WASTE   | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |  |
|  |                                      |   |   |   |  |   |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  | (2) PROCESS DESCRIPTION (If a code is not entered in D(1)) |  |  |  |  |
| 1  | F                                    | 0 | 0 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  | Inc. with TSA-17/TSA-R, Pg. 6A-1, line 1 |  |
| 2  | F                                    | 0 | 0 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 3  | F                                    | 0 | 3 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 4  | P                                    | 0 | 0 | 5 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 5  | P                                    | 0 | 1 | 2 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 6  | P                                    | 0 | 2 | 2 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 7  | P                                    | 0 | 2 | 4 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 8  | P                                    | 0 | 2 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 9  | P                                    | 0 | 2 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 10   | P                                    | 0 | 3 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 11   | P                                    | 0 | 3 | 1 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 12   | P                                    | 0 | 5 | 6 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 13   | P                                    | 0 | 7 | 3 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 14   | P                                    | 0 | 7 | 5 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 15   | P                                    | 0 | 7 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 16   | P                                    | 0 | 9 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 17   | P                                    | 1 | 0 | 4 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 18   | P                                    | 1 | 0 | 5 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 19   | P                                    | 1 | 0 | 6 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 20   | P                                    | 1 | 1 | 3 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 21   | P                                    | 1 | 1 | 6 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 22   | P                                    | 1 | 1 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 23   | P                                    | 1 | 2 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 24   | U                                    | 0 | 0 | 3 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 25   | U                                    | 0 | 0 | 4 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 26   | U                                    | 0 | 0 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 27   | U                                    | 0 | 0 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 28   | U                                    | 0 | 1 | 2 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 29   | U                                    | 0 | 1 | 4 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 30   | U                                    | 0 | 1 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 31   | U                                    | 0 | 2 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 32   | U                                    | 0 | 3 | 2 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |
| 33   | U                                    | 0 | 3 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  | Included with above                      |  |



| EPA I.D. Number (Enter from page 1)              |                                      |   |   |   | Secondary ID Number (Enter from page 1) |                                 |                                |  |  |  |  |  |  |  |  |   |
|--|--------------------------------------|---|---|---|---|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|---|
| ID4890008952                                     |                                      |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |  |   |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |  |   |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE   | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |   |
|  |                                      |   |   |   |   |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |  |   |
| 1  | U                                    | 0 | 4 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Inc. with TSA-1/TSA-R, Pg. 6A-1, line 1 |
| 2  | U                                    | 0 | 4 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 3  | U                                    | 0 | 5 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 4  | U                                    | 0 | 6 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 5  | U                                    | 0 | 7 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 6  | U                                    | 0 | 8 | 0 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 7  | U                                    | 0 | 8 | 1 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 8  | U                                    | 0 | 8 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 9  | U                                    | 0 | 8 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 10   | U                                    | 1 | 0 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 11   | U                                    | 1 | 0 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 12   | U                                    | 1 | 0 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 13   | U                                    | 1 | 1 | 6 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 14   | U                                    | 1 | 1 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 15   | U                                    | 1 | 2 | 0 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 16   | U                                    | 1 | 2 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 17   | U                                    | 1 | 2 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 18   | U                                    | 1 | 2 | 7 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 19   | U                                    | 1 | 2 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 20   | U                                    | 1 | 3 | 1 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 21   | U                                    | 1 | 3 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 22   | U                                    | 1 | 3 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 23   | U                                    | 1 | 3 | 5 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 24   | U                                    | 1 | 3 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 25   | U                                    | 1 | 4 | 0 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 26   | U                                    | 1 | 4 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 27   | U                                    | 1 | 4 | 5 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 28   | U                                    | 1 | 4 | 7 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 29   | U                                    | 1 | 5 | 1 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 30   | U                                    | 1 | 5 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 31   | U                                    | 1 | 6 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 32   | U                                    | 1 | 6 | 5 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |
| 33   | U                                    | 1 | 6 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                     |



| EPA I.D. Number (Enter from page 1)              |                                      |   |   |   |   | Secondary ID Number (Enter from page 1) |                                 |                                |  |  |  |  |  |  |  |   |  |
|--|--------------------------------------|---|---|---|---|---|---------------------------------|--------------------------------|--|--|--|--|--|--|--|---|--|
| ID4890008952                                     |                                      |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE   | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |   |  |
|  |                                      |   |   |   |   |   |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |   |  |
|  | 1                                    | U | 1 | 7 | 0 |   |                                 |                                |  |  |  |  |  |  |  | Inc. with 1SA-1/1SA-R, Pg. 6A-1, line 1 |  |
|  | 2                                    | U | 1 | 7 | 1 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 3                                    | U | 1 | 8 | 2 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 4                                    | U | 1 | 8 | 8 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 5                                    | U | 1 | 9 | 0 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 6                                    | U | 1 | 9 | 1 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 7                                    | U | 1 | 9 | 6 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 8                                    | U | 2 | 0 | 1 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
|  | 9                                    | U | 2 | 0 | 4 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 0                                    | U | 2 | 0 | 7 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 1                                    | U | 2 | 0 | 8 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 2                                    | U | 2 | 1 | 0 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 3                                    | U | 2 | 1 | 1 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 4                                    | U | 2 | 1 | 5 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 5                                    | U | 2 | 1 | 7 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 6                                    | U | 2 | 1 | 8 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 7                                    | U | 2 | 1 | 9 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 8                                    | U | 2 | 2 | 0 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 1  | 9                                    | U | 2 | 2 | 5 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 2  | 0                                    | U | 2 | 2 | 6 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 2  | 1                                    | U | 2 | 2 | 7 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 2  | 2                                    | U | 2 | 2 | 8 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 2  | 3                                    | U | 2 | 3 | 9 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 2  | 4                                    | U | 3 | 2 | 8 |   |                                 |                                |  |  |  |  |  |  |  | Included with above                     |  |
| 2  | 5                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 2  | 6                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 2  | 7                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 2  | 8                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 2  | 9                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 3  | 0                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 3  | 1                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 3  | 2                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |
| 3  | 3                                    |   |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |   |  |



| EPA I.D. Number (Enter from page 1)              |                                      |   |   |   |                                       | Secondary ID Number (Enter from page 1) |                                |   |   |  |  |  |  |  |  |                         |
|--|--------------------------------------|---|---|---|---------------------------------------|---|--------------------------------|---|---|--|--|--|--|--|--|-------------------------|
| ID4890008952                                     |                                      |   |   |   |                                       |   |                                |   |   |  |  |  |  |  |  |                         |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |                                       |   |                                |   |   |  |  |  |  |  |  |                         |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code)         | D. PROCESSES                   |   |   |  |  |  |  |  |  |                         |
|  |                                      |   |   |   |                                       |   | (1) PROCESS CODES (Enter code) |   |   |  |  |  |  |  |  |                         |
| 1  | D                                    | 0 | 0 | 1 | 15,955                                | T                                       | S                              | 0 | 1 |  |  |  |  |  |  | TSA-2 (Earthen Covered) |
| 2  | D                                    | 0 | 0 | 2 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 3  | D                                    | 0 | 0 | 4 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 4  | D                                    | 0 | 0 | 5 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 5  | D                                    | 0 | 0 | 6 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 6  | D                                    | 0 | 0 | 7 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 7  | D                                    | 0 | 0 | 8 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 8  | D                                    | 0 | 0 | 9 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 9  | D                                    | 0 | 1 | 0 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 10   | D                                    | 0 | 1 | 1 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 11   | D                                    | 0 | 1 | 8 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 12   | D                                    | 0 | 1 | 9 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 13   | D                                    | 0 | 2 | 1 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 14   | D                                    | 0 | 2 | 2 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 15   | D                                    | 0 | 2 | 3 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 16   | D                                    | 0 | 2 | 4 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 17   | D                                    | 0 | 2 | 5 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 18   | D                                    | 0 | 2 | 6 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 19   | D                                    | 0 | 2 | 8 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 20   | D                                    | 0 | 2 | 9 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 21   | D                                    | 0 | 3 | 2 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 22   | D                                    | 0 | 3 | 4 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 23   | D                                    | 0 | 3 | 5 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 24   | D                                    | 0 | 3 | 6 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 25   | D                                    | 0 | 3 | 8 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 26   | D                                    | 0 | 3 | 9 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 27   | D                                    | 0 | 4 | 0 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 28   | F                                    | 0 | 0 | 1 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 29   | F                                    | 0 | 0 | 2 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 30   | F                                    | 0 | 0 | 3 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 31   | F                                    | 0 | 0 | 4 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 32   | F                                    | 0 | 0 | 5 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |
| 33   | F                                    | 0 | 0 | 6 |                                       |   |                                |   |   |  |  |  |  |  |  | Included with above     |



EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

ID4890008952

## XIV. Description of Hazardous Wastes (Continued)

| Line Number | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   |  | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |  |  |  |  | (2) PROCESS DESCRIPTION (If a code is not entered in D(1)) |
|-------------|--------------------------------------|---|---|---|--|---------------------------------------|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|             |                                      |   |   |   |  |                                       |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1           | F                                    | 0 | 0 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Inc. with TSA-2 (Earthen Covered)<br>Pg. 6B-1, line 1      |
| 2           | F                                    | 0 | 0 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 3           | F                                    | 0 | 3 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 4           | P                                    | 0 | 0 | 5 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 5           | P                                    | 0 | 1 | 2 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 6           | P                                    | 0 | 2 | 2 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 7           | P                                    | 0 | 2 | 4 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 8           | P                                    | 0 | 2 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 9           | P                                    | 0 | 2 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 10          | P                                    | 0 | 3 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 11          | P                                    | 0 | 3 | 1 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 12          | P                                    | 0 | 5 | 6 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 13          | P                                    | 0 | 7 | 3 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 14          | P                                    | 0 | 7 | 5 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 15          | P                                    | 0 | 7 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 16          | P                                    | 0 | 9 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 17          | P                                    | 1 | 0 | 4 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 18          | P                                    | 1 | 0 | 5 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 19          | P                                    | 1 | 0 | 6 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 20          | P                                    | 1 | 1 | 3 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 21          | P                                    | 1 | 1 | 6 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 22          | P                                    | 1 | 1 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 23          | P                                    | 1 | 2 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 24          | U                                    | 0 | 0 | 3 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 25          | U                                    | 0 | 0 | 4 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 26          | U                                    | 0 | 0 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 27          | U                                    | 0 | 0 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 28          | U                                    | 0 | 1 | 2 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 29          | U                                    | 0 | 1 | 4 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 30          | U                                    | 0 | 1 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 31          | U                                    | 0 | 2 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 32          | U                                    | 0 | 3 | 2 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |
| 33          | U                                    | 0 | 3 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |  |  |  | Included with above  |



| EPA I.D. Number (Enter from page 1)                     |                                      |   |   |   | Secondary ID Number (Enter from page 1) |                                 |                                |  |  |  |  |  |  |  |  |   |
|---|--------------------------------------|---|---|---|---|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|---|
| ID4890008952  |                                      |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |  |   |
| <b>XIV. Description of Hazardous Wastes (Continued)</b> |                                      |   |   |   |   |                                 |                                |  |  |  |  |  |  |  |  |   |
| Line Number   | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE   | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |   |
|   |                                      |   |   |   |   |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |  |   |
| 1   | U                                    | 0 | 4 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Inc. with TSA-2 (Earthen Covered)<br>Pg. 6B-1, line 1 |
| 2   | U                                    | 0 | 4 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 3   | U                                    | 0 | 5 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 4   | U                                    | 0 | 6 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 5   | U                                    | 0 | 7 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 6   | U                                    | 0 | 8 | 0 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 7   | U                                    | 0 | 8 | 1 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 8   | U                                    | 0 | 8 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 9   | U                                    | 0 | 8 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 10  | U                                    | 1 | 0 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 11  | U                                    | 1 | 0 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 12  | U                                    | 1 | 0 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 13  | U                                    | 1 | 1 | 6 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 14  | U                                    | 1 | 1 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 15  | U                                    | 1 | 2 | 0 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 16  | U                                    | 1 | 2 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 17  | U                                    | 1 | 2 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 18  | U                                    | 1 | 2 | 7 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 19  | U                                    | 1 | 2 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 20  | U                                    | 1 | 3 | 1 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 21  | U                                    | 1 | 3 | 3 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 22  | U                                    | 1 | 3 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 23  | U                                    | 1 | 3 | 5 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 24  | U                                    | 1 | 3 | 8 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 25  | U                                    | 1 | 4 | 0 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 26  | U                                    | 1 | 4 | 4 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 27  | U                                    | 1 | 4 | 5 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 28  | U                                    | 1 | 4 | 7 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 29  | U                                    | 1 | 5 | 1 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 30  | U                                    | 1 | 5 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 31  | U                                    | 1 | 6 | 2 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 32  | U                                    | 1 | 6 | 5 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |
| 33  | U                                    | 1 | 6 | 9 |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |



| EPA I.D. Number (Enter from page 1)              |                                      |   |   |   |  | Secondary ID Number (Enter from page 1) |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
|--|--------------------------------------|---|---|---|--|---|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|---|--|--|
| ID4890008952                                     |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   |  | B. ESTIMATED ANNUAL QUANTITY OF WASTE   | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |   |  |  |
|  |                                      |   |   |   |  |   |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  | (2) PROCESS DESCRIPTION (If a code is not entered in D(1)) |   |  |  |
| 1  | U                                    | 1 | 7 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Inc. with TSA-2 (Earthen Covered)<br>Pg. 6B-1, line 1 |  |  |
| 2  | U                                    | 1 | 7 | 1 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 3  | U                                    | 1 | 8 | 2 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 4  | U                                    | 1 | 8 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 5  | U                                    | 1 | 9 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 6  | U                                    | 1 | 9 | 1 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 7  | U                                    | 1 | 9 | 6 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 8  | U                                    | 2 | 0 | 1 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 9  | U                                    | 2 | 0 | 4 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 10   | U                                    | 2 | 0 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 11   | U                                    | 2 | 0 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 12   | U                                    | 2 | 1 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 13   | U                                    | 2 | 1 | 1 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 14   | U                                    | 2 | 1 | 5 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 15   | U                                    | 2 | 1 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 16   | U                                    | 2 | 1 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 17   | U                                    | 2 | 1 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 18   | U                                    | 2 | 2 | 0 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 19   | U                                    | 2 | 2 | 5 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 20   | U                                    | 2 | 2 | 6 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 21   | U                                    | 2 | 2 | 7 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 22   | U                                    | 2 | 2 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 23   | U                                    | 2 | 3 | 9 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 24   | U                                    | 3 | 2 | 8 |  |   |                                 |                                |  |  |  |  |  |  |  |  | Included with above                                   |  |  |
| 25   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 26   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 27   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 28   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 29   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 30   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 31   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 32   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |
| 33   |                                      |   |   |   |  |   |                                 |                                |  |  |  |  |  |  |  |  |   |  |  |



| EPA I.D. Number (Enter from page 1)              |                                      |   |   |   |                                       |                                 | Secondary ID Number (Enter from page 1) |   |   |  |  |  |  |  |  |   |
|--|--------------------------------------|---|---|---|---------------------------------------|---------------------------------|---|---|---|--|--|--|--|--|--|---|
| ID4890008952                                     |                                      |   |   |   |                                       |                                 |   |   |   |  |  |  |  |  |  |   |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |                                       |                                 |   |   |   |  |  |  |  |  |  |   |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                            |   |   |  |  |  |  |  |  |   |
|  |                                      |   |   |   |                                       |                                 | (1) PROCESS CODES (Enter code)          |   |   |  |  |  | (2) PROCESS DESCRIPTION (If a code is not entered in D(1)) |  |  |   |
| 1  | D                                    | 0 | 0 | 1 | 6,006                                 | T                               | S                                       | 0 | 1 |  |  |  |  |  |  | TSA-RE Retrieval Modification Facility (TSA-RE RMF) |
| 2  | D                                    | 0 | 0 | 2 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 3  | D                                    | 0 | 0 | 4 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 4  | D                                    | 0 | 0 | 5 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 5  | D                                    | 0 | 0 | 6 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 6  | D                                    | 0 | 0 | 7 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 7  | D                                    | 0 | 0 | 8 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 8  | D                                    | 0 | 0 | 9 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 9  | D                                    | 0 | 1 | 0 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 10   | D                                    | 0 | 1 | 1 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 11   | D                                    | 0 | 1 | 8 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 12   | D                                    | 0 | 1 | 9 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 13   | D                                    | 0 | 2 | 1 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 14   | D                                    | 0 | 2 | 2 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 15   | D                                    | 0 | 2 | 3 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 16   | D                                    | 0 | 2 | 4 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 17   | D                                    | 0 | 2 | 5 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 18   | D                                    | 0 | 2 | 6 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 19   | D                                    | 0 | 2 | 8 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 20   | D                                    | 0 | 2 | 9 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 21   | D                                    | 0 | 3 | 2 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 22   | D                                    | 0 | 3 | 4 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 23   | D                                    | 0 | 3 | 5 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 24   | D                                    | 0 | 3 | 6 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 25   | D                                    | 0 | 3 | 8 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 26   | D                                    | 0 | 3 | 9 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 27   | D                                    | 0 | 4 | 0 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 28   | F                                    | 0 | 0 | 1 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 29   | F                                    | 0 | 0 | 2 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 30   | F                                    | 0 | 0 | 3 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 31   | F                                    | 0 | 0 | 4 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 32   | F                                    | 0 | 0 | 5 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |
| 33   | F                                    | 0 | 0 | 6 |                                       |                                 |   |   |   |  |  |  |  |  |  | Included with above                                 |



EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

ID4890008952

## XIV. Description of Hazardous Wastes (Continued)

| Line Number | A. EPA HAZARD WASTE NO. (Enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |  |
|-------------|--------------------------------------|---------------------------------------|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|
|             |                                      |                                       |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |  |  |
| 1           | F 0 0 7                              |                                       |                                 |                                |  |  |  |  |  |  |  | Inc. with TSA-RE RMF, Pg. 6C-1, line 1 |  |
| 2           | F 0 0 9                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 3           | F 0 3 9                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 4           | P 0 0 5                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 5           | P 0 1 2                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 6           | P 0 2 2                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 7           | P 0 2 4                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 8           | P 0 2 7                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 9           | P 0 2 8                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 10          | P 0 3 0                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 11          | P 0 3 1                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 12          | P 0 5 6                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 13          | P 0 7 3                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 14          | P 0 7 5                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 15          | P 0 7 7                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 16          | P 0 9 8                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 17          | P 1 0 4                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 18          | P 1 0 5                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 19          | P 1 0 6                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 20          | P 1 1 3                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 21          | P 1 1 6                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 22          | P 1 1 9                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 23          | P 1 2 0                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 24          | U 0 0 3                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 25          | U 0 0 4                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 26          | U 0 0 7                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 27          | U 0 0 9                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 28          | U 0 1 2                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 29          | U 0 1 4                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 30          | U 0 1 9                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 31          | U 0 2 0                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 32          | U 0 3 2                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |
| 33          | U 0 3 7                              |                                       |                                 |                                |  |  |  |  |  |  |  | Included with above                    |  |



| EPA I.D. Number (Enter from page 1)              |                                      |   |   |   |                                       | Secondary ID Number (Enter from page 1) |                                |  |  |  |  |  |  |  |  |  |
|--|--------------------------------------|---|---|---|---------------------------------------|---|--------------------------------|--|--|--|--|--|--|--|--|--|
| ID4890008952                                     |                                      |   |   |   |                                       |   |                                |  |  |  |  |  |  |  |  |  |
| XIV. Description of Hazardous Wastes (Continued) |                                      |   |   |   |                                       |   |                                |  |  |  |  |  |  |  |  |  |
| Line Number                                      | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code)         | D. PROCESSES                   |  |  |  |  |  |  |  |  |  |
|  |                                      |   |   |   |                                       |   | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |  |  |
| 1  | U                                    | 0 | 4 | 4 |                                       |   |                                |  |  |  |  |  |  |  |  | Inc. with TSA-RE RMF, Pg. 6C-1, line 1 |
| 2  | U                                    | 0 | 4 | 8 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 3  | U                                    | 0 | 5 | 2 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 4  | U                                    | 0 | 6 | 9 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 5  | U                                    | 0 | 7 | 9 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 6  | U                                    | 0 | 8 | 0 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 7  | U                                    | 0 | 8 | 1 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 8  | U                                    | 0 | 8 | 3 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 9  | U                                    | 0 | 8 | 4 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 10   | U                                    | 1 | 0 | 2 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 11   | U                                    | 1 | 0 | 3 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 12   | U                                    | 1 | 0 | 8 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 13   | U                                    | 1 | 1 | 6 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 14   | U                                    | 1 | 1 | 8 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 15   | U                                    | 1 | 2 | 0 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 16   | U                                    | 1 | 2 | 2 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 17   | U                                    | 1 | 2 | 3 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 18   | U                                    | 1 | 2 | 7 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 19   | U                                    | 1 | 2 | 8 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 20   | U                                    | 1 | 3 | 1 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 21   | U                                    | 1 | 3 | 3 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 22   | U                                    | 1 | 3 | 4 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 23   | U                                    | 1 | 3 | 5 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 24   | U                                    | 1 | 3 | 8 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 25   | U                                    | 1 | 4 | 0 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 26   | U                                    | 1 | 4 | 4 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 27   | U                                    | 1 | 4 | 5 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 28   | U                                    | 1 | 4 | 7 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 29   | U                                    | 1 | 5 | 1 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 30   | U                                    | 1 | 5 | 9 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 31   | U                                    | 1 | 6 | 2 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 32   | U                                    | 1 | 6 | 5 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 33   | U                                    | 1 | 6 | 9 |                                       |   |                                |  |  |  |  |  |  |  |  | Included with above                    |



EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

ID4890008952

## XIV. Description of Hazardous Wastes (Continued)

| Line Number | A. EPA HAZARD WASTE NO. (Enter code) |   |   |   |  | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code) | D. PROCESSES                   |  |  |  |  |  |  |  |  |  |
|-------------|--------------------------------------|---|---|---|--|---------------------------------------|---------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|
|             |                                      |   |   |   |  |                                       |                                 | (1) PROCESS CODES (Enter code) |  |  |  |  |  |  |  |  |  |
| 1           | U                                    | 1 | 7 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Inc. with TSA-RE RMF, Pg. 6C-1, line 1 |
| 2           | U                                    | 1 | 7 | 1 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 3           | U                                    | 1 | 8 | 2 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 4           | U                                    | 1 | 8 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 5           | U                                    | 1 | 9 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 6           | U                                    | 1 | 9 | 1 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 7           | U                                    | 1 | 9 | 6 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 8           | U                                    | 2 | 0 | 1 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 9           | U                                    | 2 | 0 | 4 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 10          | U                                    | 2 | 0 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 11          | U                                    | 2 | 0 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 12          | U                                    | 2 | 1 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 13          | U                                    | 2 | 1 | 1 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 14          | U                                    | 2 | 1 | 5 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 15          | U                                    | 2 | 1 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 16          | U                                    | 2 | 1 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 17          | U                                    | 2 | 1 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 18          | U                                    | 2 | 2 | 0 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 19          | U                                    | 2 | 2 | 5 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 20          | U                                    | 2 | 2 | 6 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 21          | U                                    | 2 | 2 | 7 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 22          | U                                    | 2 | 2 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 23          | U                                    | 2 | 3 | 9 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 24          | U                                    | 3 | 2 | 8 |  |                                       |                                 |                                |  |  |  |  |  |  |  |  | Included with above                    |
| 25          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 26          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 27          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 28          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 29          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 30          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 31          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 32          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |
| 33          |                                      |   |   |   |  |                                       |                                 |                                |  |  |  |  |  |  |  |  |  |

## Hazardous Waste Debris Categories

Idaho Administrative Procedures Act (IDAPA) 58.01.05.012 [40 CFR 270.13(n)] requires a description of the debris categories stored at a facility to be submitted in the Part A Permit Application. Debris as defined by 40 CFR 268.2 means a solid material exceeding a 60-mm particle size that is intended for disposal and that is: 1) a manufactured object; 2) plant or animal matter; or 3) natural geologic material. Debris stored at the RWMC includes waste in all three general categories. The following is a list of examples in each debris category that may be stored at the TSA units.

### CATEGORY I—Manufactured Objects

- Glass
- Concrete
- Masonry and refractory bricks
- Paper
- Plastic
- Rubber
- Cloth
- Pavement
- Metal Debris
  - Pipes
  - Valves
  - Scrap metal
- Other Heterogeneous Debris
  - Non-intact containers
  - Tanks
  - Appliances
  - Industrial equipment

### CATEGORY II—Plant and Animal Matter

- Biological Debris
  - Animal carcasses
  - Other plant matter
- Wood Debris
  - Wood
  - Plant stumps

### CATEGORY III—Natural Geologic Material

- Rock
- Cobbles
- Boulders
- Asbestos



**Item XVII Photographs**

**TSA-RE**

|    | <u>Photo No.</u> | <u>Photo Description</u>                                    | <u>Date</u> |
|----|------------------|---|-------------|
| 1  |                  |   |             |
| 2  |                  |   |             |
| 3  |                  |   |             |
| 4  |                  |   |             |
| 5  | Photo 1.         | View of Northeast corner of TSA-RE (TSA-1/TSA-R within)     | 6/99        |
| 6  | Photo 2.         | Interior of TSA-1/TSA-R, located within the TSA-RE          | 6/99        |
| 7  | Photo 3.         | View of Northwest corner of TSA-RE (TSA-1/TSA-R within)     | 6/99        |
| 8  | Photo 4.         | View of Southwest corner of TSA-RE (TSA-R within)           | 6/99        |
| 9  | Photo 5.         | View of Southeast corner of TSA-RE (TSA-2 and TSA-R within) | 6/99        |
| 10 | Photo 6.         | Aerial Photo of RWMC Facility                               | 6/99        |



Photo 1. View of Northeast corner of TSA-RE (TSA-1/TSA-R within)



Photo 2. Interior of TSA-1/TSA-R, located within the TSA-RE





Photo 3. View of Northwest corner of TSA-RE (TSA-1/TSA-R within)

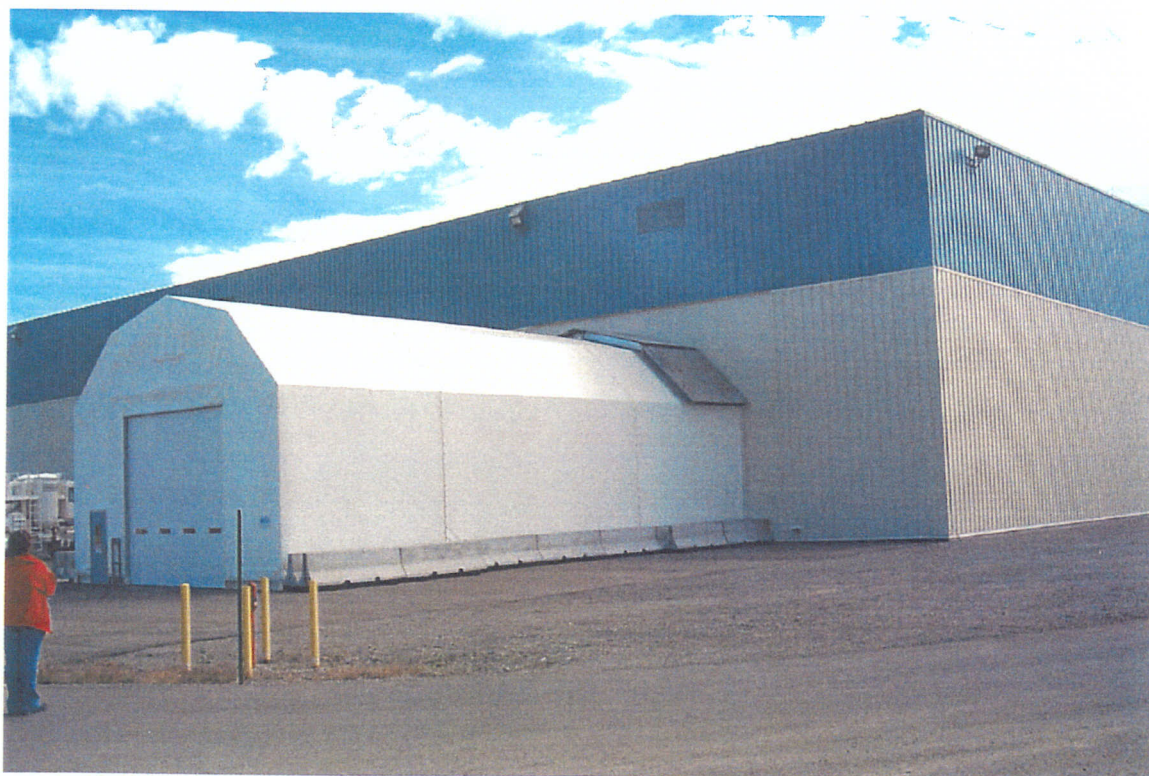


Photo 4. View of Southwest corner of TSA-RE (TSA-R within)





Photo 5. View of Southeast corner of TSA-RE (TSA-2 and TSA-R within)



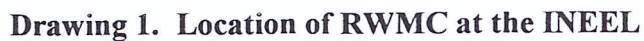
Photo 6. Aerial Photo of RWMC Facility



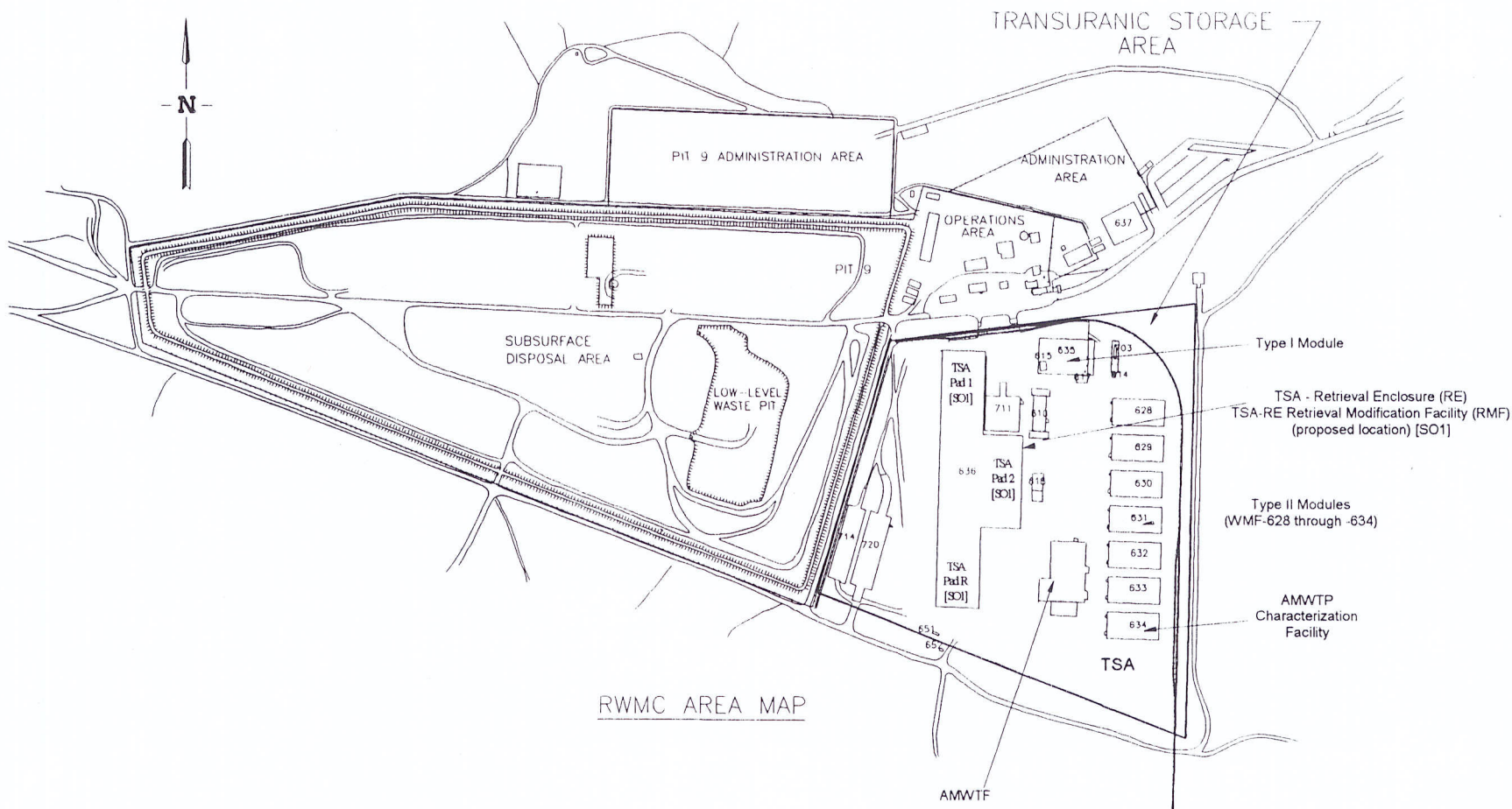
**ITEM XVI**

**FACILITY DRAWING**

| <u>Drawing Number</u> | <u>Drawing Description</u>                                    |
|-----------------------|---|
| Drawing 1.            | Map of the INEEL showing RWMC location                        |
| Drawing 2             | Radioactive Waste Management Complex (RWMC)<br>showing TSA-RE |







Drawing 2. Radioactive Waste Management Complex (RWMC)

**ITEM XVI TOPOGRAPHIC MAP**

**RADIOACTIVE WASTE MANAGEMENT COMPLEX (RWMC)**

(in sheet protector following)



# Radioactive Waste Management Complex (RWMC)



1 inch = 500 feet  
0 500 1000 1500 2000 2500 3000 Feet

Date Drawn: September 21, 2000

NOTES: Landuse: RWMC facility boundaries are surrounded by restricted-access federal lands.

Legal Description: RWMC facility boundaries are located in Township 2 North, Range 29 East, Sections 17 and 18.

100-year floodplain: Portions of the RWMC facility boundaries are located within the 100-year floodplain. The AMWTF and WMF-629 through -634 boundaries are not located within the 100-year floodplain. If a 100-year flood were to occur the existing surface water drainage control system would prevent washout of any of the RWMC TSA HWMA-regulated units.

## LEGEND

- Roads and Buildings
- Primary Contours (10-ft. interval)
- Intermediate Contours (2-ft. interval)
- Depressions
- Fences and Gates
- Railroad Tracks
- Channels Tributary to Big Lost River System (Including Barriers for Drainage or Flood Control)
- Streams and Ditches
- Proposed Road Changes
- Culverts
- Flow Path
- Sanitary Sewer Line
- Fire Water Line
- Withdrawal Wells
- Injection Wells
- Interim Status Treatment and Storage Areas



|  |  |
|--|--|
| <b>EPA I.D. Number (Enter from page 1)</b>   | <b>Secondary ID Number (Enter from page 1)</b> |
| ID4890008952   |  |
| <b>XV. Map</b>   |  |
| <i>Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.</i>  |  |
| <b>XVI. Facility Drawing</b>   |  |
| <i>All existing facilities must include a scale drawing of the facility (see instructions for more detail).</i>  |  |
| <b>XVII. Photographs</b>   |  |
| <i>All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).</i>  |  |
| <b>XVIII. Certification(s)</b>   |  |
| <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i> |  |
| Owner Signature  | Date Signed                                    |
| Name and Official Title (Type or print)<br>Beverly A. Cook, Manager, DOE-ID Operations Office, Idaho   |  |
| Owner Signature<br><i>Beverly A. Cook</i>  | Date Signed<br><i>10/2/00</i>                  |
| Name and Official Title (Type or print)  |  |
| Operator Signature<br><i>Frederick P. Hughes</i>   | Date Signed<br><i>3/27/00</i>                  |
| Name and Official Title (Type or print)<br>Frederick P. Hughes, AMWTP General Manager, BNFL Inc.   |  |
| Operator Signature   | Date Signed                                    |
| Name and Official Title (Type or print)  |  |
| <b>XIX. Comments</b>   |  |
|  |  |
| <b>Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information)</b>   |  |